

STOP PRESS: We have a special program by Gary Ernst - K0GVB from West Branch. Gary was on a recent DX-pedition and will share his travels with us.

EIDXA NEWSLETTER

3-12-81

The next scheduled meeting for the EIDXA will be April 3, 1981 at 7:30 at the Marion R. E. C. Center. This meeting should give everyone a chance to compare their efforts in the ARRL DX bashes.

Items to be covered include:

- 1) 1982 Convention Report
- 2) Repeater Committee Discussion
- 3) General Business

This issue contains some of the operating aids and guidelines for the new members that have appeared before. Hopefully they will prove helpful to the membership.

WØWP
TOM LINDGREN
1260 13th Ave.
Marion, Iowa 52302

To: WØSR

Editors Scratch pad:

For the record, WØWP is this issues editor. Rick ADØF skipped to W2 land for improved low band propagation. On behalf of the club, we'd like to wish Rick and Dee good luck! CU in piles Rick.....

Due to Rick's departure, the EIDXA will elect a new Vice President at the April meeting.....

WØIZ and WØWP attended the Burlington, Iowa amateur clubs banquet and show earlier this month. "The 25 Greatest Dx-peditions" show presented by Hugh WA4WME was exceptionally well done. The folks in Burlington especially WØNB, WØJI, and KØKOP were just great hosts for a first class dxers show!

The new KWM3BO's are really showing up in the club, some of the newest proud owners are KØAT, WØUZ, WBØPYD, WØEJ, and KØJSY.....

NØAFL, Dave and KCØQ, Jeff are really tearing up the ionosphere these days. Both Jeff and Dave have made substantial strides in there DXCCs... Watch out you old time dxers, these dx sleuths are for real!

Speaking of Jeff KCØQ, his Super Keyer pcb and parts kit are available at the Parts Store in Marion.....

Roger N4RR broke his leg. No he didn't fall off his tower (with his sky needle more extensive damage is a certainty). He slipped pushing his automobile out of his garage. The accident occurred one week prior to the arrl dx competition cw. Roger had been waiting impatiently for months to participate this year in the big contest. Giving it a valiant effort Roger had to rest the leg after several hours of operating..... even with the bad leg though Roger is still knocking off the zones for his five band WAZ. Last count he had only 7 left to go !

WØIZ confirmed Tim BV2A on 14 cw ! Congrats to the new EIDXA extra class hams Eric WBØPYD, Joel WBØYUI, and Jan KFØZ (NØAYM). Super job fellas!

On the Domestic Scene- Have you read the CR Gazette Sports section lately? If so you probably have seen Curt Benson's picture there. KØAT's son Curt, won the state high schools 200 yard freestyle swimming title last week in Ames. Would you believe he is only a sophomore?

Congradulations to KØJSY on his new job promotion, Director of the Linn County Health Dept. Also Keith has move into his new home on hillside with plenty of room for antennas. He says watch out for the big signal from him next fall!

AKØM Steve, and KDØQ Glenn, are each proud new fathers recently!

KBØV Matt, tied the ribbons with his new XYL Becky, December 28!

The Waterloo Club has elected Jim WBØUFL there Vice President, and Steve AKØM there Secretary!

Minutes of EIDX meeting of Sept. 19, 1980. The meeting was called to order by president KØJSY at 7:40 at the REC building in Marion, Iowa

Members in attendance were CF, AFL, SML, IZ, WP, M, INR, AL, GT, SR, VX, ELF, VM, PR, AYM, JSY, LUZ, F, EJ, GA, Q.

Visitors in attendance were KØBI, WØPPF, WDØBKT, WAØGCX, and ~~WØWB~~

Minutes of the last meeting were read and approved.

Treasurers report reported an amount of \$157.66 in the treasury. WØWP submitted bills of \$15.13 for mailings and \$15.42 for coffee and donuts. Coffee donations for the evening amounted to \$8.25. The club also accepted \$14.25 from the qsl committee for money received above expenses.

KØJSY has been appointed by CQ magazine as official checker of qsls for CQ awards.

The ARRL National Convention will be held in Cedar Rapids in 1982. KØJSY is representing the EIDX on general planning with CVARC committee. A committee for the DX portion of the convention to be hosted by EIDX was formed. WØSR and WØWP were appointed as committee members.

KØJSY thanked the officers of 1979 for their help.

WØWP gave a report on contest awards within the club to add incentive in participation. The committee is setting up criteria so that all members have a chance of winning a certificate or plaque. WØSML moved that the existing committee continue their project by organizing and developing an incentive program. WØVX seconded and the motion carried.

KØCF gave a report on the qsl committee. 14 members got qsls this time. KØCF moved that \$14.25 left over be donated to the club. The motion was seconded and it carried. Qsls can be ordered if new members want to order or old members reorder. It is less expensive however, if several members order at the same time. Example:

3000 cards for 9 members	\$31.88
3000 cards for 3 members	\$46.55

A motion was made for the secretary to send copy of new CQ WW contest log to all members. Motion was seconded and carried.

WØVX moved to make 1000 copies of the new CQ WW form. WØSML seconded and the motion carried.

KØVM gave a report on the progress of the EIDX repeater. A repeater is now on with about 20 miles mobile coverage. The frequencies are 144.57 input/ 145.17 output. Items still needed for the project are transmit antennas, lockable cabinet, and some power supply components. The receive site has been arranged but a transmet site is still needed. The club and committee are looking for a site.

WØSR moved that the repeater committee prepare a financial proposal for completing the repeater installation. At that time the club will decide if we will have a repeater. Motion was seconded and carried.

Page two of Sept. 19, 1980 meeting

Election of officers:

Nominated for president: N4RR and WØEJ-----elected WØEJ

Nominated for vice president: ADØF, KØINR, and KBØPR-----elected ADØF

Nominated for secretary: KØLUZ-----elected KØLUZ

WØSML moved to make the REC building our permanent meeting place. Motion was seconded. The motion did not carry.

The meeting was adjourned at 9:16.

Respectfully Submitted

Gary Letchford KØLUZ

Gary Letchford KØLUZ
Secretary EIDXA

DX

Are you a big gun?

John Yodis, K2VV

A lot of intangibles go into designating an amateur as a "Big Gun" or even a "Little Pistol." If you're not quite sure if you or someone else belongs in one of these categories, this guide may be of value.

Big Gun	Little Pistol	Lost Cause
Clears his throat in a pileup and receives 40 over 9 report.	Is last W2 to get through and is 40 minutes late for work.	Wastes 4 hours calling with no luck — finds cat strangled by irate neighbor with TVI.
Is immediately called by name by DX station.	Usually has to spell his name four times phonetically.	Is called colorful names by DX station for interrupting phone patch.
Writes critiques of technical articles in ham radio.	Had letter to the editor printed in QST.	Has lifetime subscription to "73".
Knows beam heading of every DXCC country.	Knows roughly where Japan and Europe are.	Turns 2-meter beam toward the other guy's house when working him through repeater.
Has made high claimed scores listing in last 8 ARRL DX contests.	Was highest-scoring Novice in section in his first ARRL Sweepstakes.	Tied for fourth place in NYS in last Rhode Island QSO Party.
Speaks 14 languages well enough to get a QSL.	Picked up a few dirty French words in WWII — uses them to insult VE2's on 75M.	Has been spelling "amateur" wrong all his life.
Receives QSL shipments from bureau by UPS.	Receives QSL shipments from bureau by first class mail.	Still gets QSL samples from "Little Print Shop".
Has 5BDXCC and 3 ZA QSLs on wall.	Has 40M WAS and King Hussein's QSL on wall.	Has RCC and ARRL membership certificates on wall.

— Albany ARA, NY

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From the Prez-

This next meeting promises to be an important one for the EIDMA. Some important old and new issues need to be decided and I urge all members to attend.

One important item will be the election of a new club vice president. As many of you are aware, AD4F headed east recently vacating the post. When you come to the meeting, be sure to bring the nominee of your choice along. However, he need not be present to win.

The repeater committee has been reorganized and WØMJN is the new chairman. The committee will again make a presentation and offer some recommendations. In view of the lengthy discussion of this topic at the last meeting, it is the hope of many that this matter can be decided quickly in April.

A big "Thank You" goes to Tom, WØWP, for putting out our first newsletter of the year. Tom stepped in to handle this chore when AD4F left.

Best DXing to all and see you at the April meeting.

- 73,
Wade Walstrom WØEJ

shorts...

KDØH Lloyd has QSYed to New York to take up residence. Lloyd received a company promotion which required his departure. From the EIDMAers best of luck Lloyd!

FOR SALE: DRAKE TR-4CW/RIT, AC-4, 10m crystals, spare tubes, 2 yrs old, \$550. Fred KØAT 362-4962

WANTED: The no. 200 DXCC sticker (old style) if you have one to spare please contact WØVX Dave.

The EIDMA weekly net meets every Wednesday at 9:30PM on 146.16-76 WØGQ repeater. Our net control is KØLUZ Red. The purpose of the net is to exchange club information and DX tips. Your participation would be appreciated.

REMINDER: The CQ WPX phone test is March 28-29; the CQ WPX cw test is May 30-31. This will be the first time that the club will participate as a group in these contests. As with all the club aggregate totals they will be totaled by the club secretary, KØLUZ.

14 October 1980

TO: EIDXa Members
FROM: Repeater Committee

Subject: Repeater update and cost estimates

Planning work for the .57/.17 EIDXa repeater is continuing. We will soon be facing a decision on implementation of the plan. This letter will bring you up to date on the latest developments and cost estimates.

Tentative sites for the transmitter and receiver have been located on the NE side of Cedar Rapids. These sites should provide good coverage in Eastern Iowa similar to the CVARC .16/.76 machine. Use of the sites will be free to the club with the possible exception of liability insurance.

It is estimated that the repeater will cost the club about \$800. A breakdown of the costs follows:

ITEM	COST
1. .57 receiver	\$300.00
.17 transmitter	
repeater control logic	
remote control system	
UHF cross link	
2. 130 watt PA & PS	250.00
3. transmit antenna	200.00
hard line coax	
4. locking cabinet	<u>50.00</u>
	\$800.00

This amounts to about \$20.00 per member and hopefully can be reduced by careful acquisition and hardware donations. Please note that no money has been spent or committed as of yet even though an experimental repeater is presently operating on .57/.17 at KØVM's QTH.

These are the facts as we know them. Putting the repeater on the air will depend on membership vote at the next meeting. If you support the idea and can contribute cash, hardware, and/or labor please let the committee know. If you have heartburn about what we are doing we also would like to know.

73,
WØFO, KØVM, & WØVX

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TO ALL EIDXIA CLUB MEMBERS:

As you may already know, I'll be leaving the Cedar Rapids area at the end of February. I was faced with a career decision that was not easy to make. I will be relocating in Rochester, New York to accept a position with the RF Communications Division of the Harris Corporation. I regret that my involvement on 147.57 and the HF bands was not what I intended but with many hours of overtime at work and some of the potential "Legal" battles I was faced with, it just was not practical.

I have enjoyed the association very much and would really like to have stayed in the area but contrary to popular belief some things wind up being more important than pile-ups, late nights on 80, etc. With these comments in mind I would like to resign my Vice-Presidency in the EIDXIA and be placed on the inactive member status.

I look forward to catching you around the bands once I get situated (could've sworn I just did that) in New York. Please keep in touch and I'll look for you all in the pile-ups.

Sincerely

Rick ADØF

P.S. My new address will be:

Richard Heinrich ADØF/2
3565 Ridge Rd.
Williamson, NY 14589

CQ
76 North Broadway
Hicksville, NY 11801

Dear Sir:

Enclosed are scores for the Eastern Iowa DX Association for club scores in 1980 CQ WW Contest.

Call	Phone Score	CW Score
NØAFL	38,400	
KØAL	37.535	
NØAYM		67,800
KØAT	1,419,204	
WDØAWL	30,000	
WØEAN	93,912	
WDØEIF	704,815	
ADØF		60,000
KØGT	13,930	
KDØH	225,340	
KØLUZ		1,049,600
AKØM	159,278	38,682
WØMJN	191,760	
WØPPF	49,253	
KBØPR	553,308	
KDØQ	595,602	286,748
WØSR	107,450	117,392
KBØSY	12,340	
KØVM	436,278	
WØVX		86,598
WØWP		1,126,681
TOTALS	<hr/>	<hr/>
	4,668,405	2,833,501
Total of both phone and CW		7,501,906

Sincerely,

Gary Letchford KØLuz
Gary Letchford KØLuz
Sec. Tres. EIDXA

CONTESTING-

The following paragraphs are from N6OP's new "The Contest Cookbook" available from 73 magazine.

The Four Commandments of Contesting

The following four "commandments of contesting" are just as relevant to the advanced contester as to the beginner, but on a more sophisticated level of understanding. They cannot truly be taught, but must be experienced and then assimilated into one's contest repertoire of skills and tricks. One or more of these commandments were mentioned by many contributors, but W3ZZ perhaps puts them best:

KNOW YOURSELF

Only you know your own physical and mental limitations... There are ways of improving at least your mental approach, but there are limits beyond which each individual cannot go.

KNOW YOUR STATION

This means knowing its strengths and weaknesses...on which band you are loud and when, and the reverse...how to change bands rapidly...how to use your particular receiver...etc.

KNOW PROPAGATION

You must be active from day to day so you don't guess the propagation, you know it. You should know who's where for DX so well that you could write the DX bulletins.

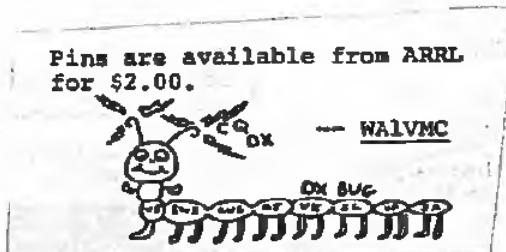
PRACTICE, PRACTICE, PRACTICE.

You do not become a great contest operator overnight. If you aspire to win the major contests (SS, CQ WW & ARRL DX Tests), you must use other contests to practice. Operate the CD parties and FD for SS; operate WAE, all Asia, and WPX for the DX contests.

N6DX paraphrases these same concepts in a brief but effective manner: "Don't forget that a contest is a final exam encompassing all aspects: propagation, antennas, receivers, transmitters, accessories, operating skill, ingenuity, etc. To win you must go to the limit in every category."

In the midst of all this striving for perfection, however, it is also important to maintain some sense of balance or sense of humor. As W5XX puts it: "Dont get bent out of shape in the pileups!"

GO GETTUM EIDXaers!



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EIDX DX CENTURY CLUB STANDINGS
 as published in QST as of March 1, 1981

MIXED		PHONE		CW	
<u>CALL</u>	<u>TOTAL</u>	<u>CALL</u>	<u>TOTAL</u>	<u>CALL</u>	<u>TOTAL</u>
WØSR	313	WØSR	308	WØWP	286
WØIZ	312	KØGT	270	WØSR	272
N4RR	307	WØIZ	251	N4RR	240
KØLUZ	303	KØLUZ	240	WØVX	189
WØWP	300	KØJSY	230	KDØQ	115
WØVX	287	KØCF	229	WØUZ	100
KØJSY	230	WØVX	207		
KDØQ	226	NØAFL	202		
KØAL	225	WDØAWL	194		
WBØYUI	177	KØINR	145		
KØINR	171	WØEAN	139		
WØEJ	165	KBØPR	139		
WØUZ	111	WBØUFL	127		
WBØUFL	108	KØAL	125		
WBØOYA	108	WØEJ	117		
NØBGI	106	WØPPF	112		
WBØSEL	103	KDØQ	111		
KDØH	100	WBØOYA	108		
		WBØYUI	107		
		WØSML	104		
		KBØSY	102		
		KAØCLQ	101		

SSB	CW
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Current Countries Total:

00000 00000 A2 [38] Botswana
 00000 00000 A3 [32] Rep. of Tonga
 00000 00000 A4X [21] Oman
 00000 00000 A5 [21] Bhutan
 00000 00000 A6X [21] United Arab Emirates
 00000 00000 A7X [21] Qatar
 00000 00000 A9X [21] Bahrain
 00000 00000 AA (See K)
 00000 00000 AP [21] Pakistan
 00000 00000 BV [24] Taiwan
 00000 00000 BY [23, 24] China
 00000 00000 C2 [31] Rep. of Nauru
 00000 00000 C3 [14] Andorra
 00000 00000 C5 [35] The Gambia
 00000 00000 C6 [8] Bahamas
 00000 00000 C9 [37] Mozambique
 00000 00000 CE [12] Chile
 00000 00000 CE9AA-AM, FB8Y, KC4.LA, LU-Z, OR4,
 UA1, UK1, VK9, VP8, ZL5, ZS1, 3Y, 4K, BJ
 00000 00000 Antarctica
 00000 00000 CE9AN-AZ (See VP8)
 00000 00000 CE0A [12] Easter Is.
 00000 00000 CE0X [12] San Felix
 00000 00000 CE0Z [12] Juan Fernandez
 00000 00000 CM, CO [8] Cuba
 00000 00000 CN [33] Morocco
 00000 00000 CP [10] Bolivia
 00000 00000 CR3 [35] Guinea-Bissau
 00000 00000 CR9 [24] Macao
 00000 00000 CT [14] Portugal
 00000 00000 CT2 [14] Azores
 00000 00000 CT3 [33] Madeira Is.
 00000 00000 CX [13] Uruguay
 00000 00000 D2, 3 [36] Angola
 00000 00000 D4 [35] Rep. of Cape Verde
 00000 00000 D6 [39] Comoros
 00000 00000 DA, DF, DJ, DK, DL
 00000 00000 DM, DT, Y [14] Fed. Rep. of Germany
 00000 00000 DU [27] German Democratic Rep.
 00000 00000 EA [14] Rep. of Philippines
 00000 00000 EA6 [14] Spain
 00000 00000 EA8 [33] Balearic Is.
 00000 00000 EA9 [33] Canary Is.
 00000 00000 EI [14] Ceuta and Melilla
 00000 00000 EL [35] Rep. of Ireland
 00000 00000 EP [21] Liberia
 00000 00000 ET [37] Iran
 00000 00000 F [37] Ethiopia
 00000 00000 FB8W [14] France
 00000 00000 FB8X [39] Crozet
 00000 00000 FB8Y (See CE9AA-AM)
 00000 00000 FB8Z [39] Kerguelen Is.
 00000 00000 FC [15] Amsterdam & St. Paul Is.
 00000 00000 FG [8] Corsica
 00000 00000 FG, FS [8] Guadeloupe
 00000 00000 FH [8] Saint Martin
 00000 00000 FK [39] Mayotte
 00000 00000 FM [32] New Caledonia
 00000 00000 FO [8] Martinique
 00000 00000 FO [7] Clipperton I.
 00000 00000 FP [32] Fr. Polynesia
 00000 00000 FP [5] St. Pierre & Miquelon
 00000 00000 FR [39] Glorioso Is.
 00000 00000 FR [39] Juan de Nova, Europa
 00000 00000 FR [39] Reunion
 00000 00000 FR [39] Tromelin

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00000 00000 FW [32] Wallis & Futuna Is.
 00000 00000 FY [9] Fr. Guiana
 00000 00000 G [14] England
 00000 00000 GD [14] Isle of Man
 00000 00000 GI [14] Northern Ireland
 00000 00000 GJ, GC [14] Jersey
 00000 00000 GM [14] Scotland
 00000 00000 GU, GC [14] Guernsey & Dependencies
 00000 00000 GW [14] Wales
 00000 00000 H4, VR4 [28] Solomon Is.
 00000 00000 HA [15] Hungary
 00000 00000 HB [14] Switzerland
 00000 00000 HB0 [15] Liechtenstein
 00000 00000 HC [10] Ecuador
 00000 00000 HC8 [10] Galapagos Isls.
 00000 00000 HH [8] Haiti
 00000 00000 HI [8] Dominican Rep.
 00000 00000 HK [9] Colombia
 00000 00000 HK0 [8] Bajo Nuevo
 00000 00000 HK0 [10] Malpelo I.
 00000 00000 HK0 [7] San Andres & Providencia
 00000 00000 HK0 (See KS4)
 00000 00000 HL, HM [25] Korea
 00000 00000 HP [7] Panama
 00000 00000 HR [7] Honduras
 00000 00000 HS [26] Thailand
 00000 00000 HV [15] Vatican
 00000 00000 HZ, 7Z [21] Saudi Arabia
 00000 00000 I, IT [15] Italy
 00000 00000 IS [15] Sardinia
 00000 00000 J2, FL8 [37] Djibouti
 00000 00000 J3, VP2G [8] Grenada & Dependencies
 00000 00000 J6, VP2L [8] St. Lucia
 00000 00000 J7, VP2L [8] Dominica
 00000 00000 JA, JE, JG, JH, JR, KA [25] Japan
 00000 00000 JD, KA1 [27] Minami Torishima
 00000 00000 JD, KA1 [27] Ogasawara
 00000 00000 JT [23] Mongolia
 00000 00000 JW [40] Svalbard
 00000 00000 JX [40] Jan Mayer
 00000 00000 JY [20] Jordan
 00000 00000 K, W, N, A
 00000 00000 [3, 4, 5] United States of America
 00000 00000 KB, KH1 [31] Baker, Howland & American Phoenix Is.
 KC4 (See CE9AA-AM)
 00000 00000 KC4, KP1 [8] Navassa I.
 00000 00000 KC6 [27] Eastern Caroline I.
 00000 00000 KC6 [27] Western Caroline I.
 00000 00000 KG4 [8] Guantanamo Bay
 00000 00000 KG6, KH2 [27] Guar
 00000 00000 KG6R, S, T, KH0 [27] Mariana I.
 00000 00000 KH6 [31] Hawaiian I.
 00000 00000 KH7 [31] Kure
 00000 00000 KJ, KH3 [31] Johnston
 00000 00000 KL7 [1] Alaska
 00000 00000 KM, KH4 [31] Midway I.
 00000 00000 KP4 [8] Puerto Rico
 00000 00000 KP4 [8] Desecheo I.
 00000 00000 KP6, KH5K [31] Kingman Re
 00000 00000 KP6, KH5 [31] Palmyra, Jarvis
 00000 00000 KS4, KP3, HK0
 00000 00000 [7] Serrana Bank & Roncador C.
 00000 00000 KS6, KH8 [32] American Sam.

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00000 00000 KV,KP2 . . [8] Virgin Is.
 00000 00000 KW,KH9 . . [31] Wake I.
 00000 00000 KX . . [31] Marshall Is.
 00000 00000 LA,LB,LF,LG,LJ . . [14] Norway
 LA (See CE9AA-AM)
 00000 00000 LU . . [13] Argentina
 LU-Z (See CE9AA-AM,VP8)
 00000 00000 LX . . [14] Luxembourg
 00000 00000 LZ . . [20] Bulgaria
 M1 (See 9A)
 N (See K)
 00000 00000 OA . . [10] Peru
 00000 00000 OD . . [20] Lebanon
 00000 00000 OE . . [15] Austria
 00000 00000 OH . . [15] Finland
 00000 00000 OH9 . . [15] Aland Is.
 00000 00000 OJ9 . . [15] Market
 00000 00000 OK . . [15] Czechoslovakia
 00000 00000 ON . . [14] Belgium
 OR4 (See CE9AA-AM)
 00000 00000 OX,XP . . [40] Greenland
 00000 00000 OY . . [14] Faroe Is.
 00000 00000 OZ . . [14] Denmark
 00000 00000 P2 . . [28] Papua New Guinea
 00000 00000 PA,PD,PE,PI . . [14] Netherlands
 00000 00000 PJ . . [9] Neth. Antilles
 00000 00000 PJ . . [9] . . St. Maarten, Saba, St. Eustatius
 00000 00000 PY . . [11] Brazil
 00000 00000 PYG . . [11] . . Fernando de Noronha
 00000 00000 PYG . . [11] . . St. Peter & St. Paul's Rocks
 00000 00000 PYG . . [11] . . Trindade & Martim Vaz Is.
 00000 00000 PZ . . [9] Surinam
 00000 00000 S2 . . [22] Bangladesh
 00000 00000 S7 . . [39] Seychelles
 00000 00000 S9.CRS . . [36] . . Sao Tome & Principe
 00000 00000 SK,SL,SM . . [14] Sweden
 00000 00000 SP . . [15] Poland
 00000 00000 ST . . [34] Sudan
 00000 00000 ST0 . . [34] Southern Sudan
 00000 00000 SU . . [34] Egypt
 00000 00000 SV . . [20] Greece
 00000 00000 SV . . [20] Crete
 00000 00000 SV . . [20] Dodecanese
 00000 00000 SV . . [20] . . Mount Athos
 00000 00000 TA . . [20] Turkey
 00000 00000 TF . . [40] Iceland
 00000 00000 TG . . [7] Guatemala
 00000 00000 TI . . [7] Costa Rica
 00000 00000 TI9 . . [7] Cocos I.
 00000 00000 TJ . . [36] Cameroon
 00000 00000 TL . . [36] . . Central African Empire
 00000 00000 TN . . [36] Congo
 00000 00000 TR . . [36] Gabon
 00000 00000 TT . . [36] Chad
 00000 00000 TU . . [35] Ivory Coast
 00000 00000 TY . . [35] Benin
 00000 00000 TZ . . [35] Mali
 T2 (See VR8)
 T3 (See VR)

SSB	CW
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UA: UK1,3,4,6; UV: UW1-6; UN1
 . . [16] . . European Russian S.F.S.R.
 00000 00000 UA1,UK1 . . [40] . . Franz Josef Land
 UA1,UK1 (See CE9AA-AM)
 00000 00000 UA2,UK2F . . [15] . . Kaliningradsk
 UA,UK,UV,UW9-0
 00000 00000 [16,17,18,19,23] Asiatic R.S.F.S.R.
 00000 00000 UB,UK,UT,UYS . . [16] . . Ukraine
 UC2,UK2A/C/I/L/O/S/W
 00000 00000 [16] . . White R.S.S.R.
 00000 00000 UD6,UK6C/D/K . . [21] . . Azerbaijan
 00000 00000 UF6,UK6F/O/Q/V . . [21] . . Georgia
 00000 00000 UG6,UK6G . . [21] . . Armenia
 00000 00000 UH8,UK8H . . [17] . . Turkoman
 00000 00000 UI8,UK8 . . [17] . . Uzbek
 00000 00000 UJ8,UK8J/R . . [17] . . Tadzhik
 00000 00000 UL7,UK7 . . [17] . . Kazakh
 00000 00000 UM8,UK8M,N . . [17] . . Kirghiz
 00000 00000 UOS,UK5O . . [16] . . Moldavia
 00000 00000 UP2,UK2B/P . . [15] . . Lithuania
 00000 00000 UQ2,UK2G/Q . . [15] . . Latvia
 00000 00000 UR2,UK2R/T . . [15] . . Estonia
 00000 00000 VE,VO . . [1,2,3,4,5] . . Canada
 00000 00000 VE1 [5] . . Sable I.
 00000 00000 VE1 St. Paul I
 00000 00000 VK [29,30] . . Australia
 00000 00000 VCCC0 VK Lord Howe I
 00000 00000 VK9 [30] Willis I.
 00000 00000 VK9 [29] Christmas I.
 00000 00000 VK9 [29] Cocos I
 00000 00000 VK9 [30] Mellish Reefs
 00000 00000 VK9 [32] Norfolk I.
 VK9 (See CE9AA-AM)
 00000 00000 VK9 [39] Heard I.
 00000 00000 VK9 [30] Macquarie I
 VO (See VE)
 00000 00000 VP1 [7] Belize
 00000 00000 VP2A [8] Antigua, Barbuda
 00000 00000 VP2E [8] Anguilla
 00000 00000 VP2K [8] St. Kitts, Nevis
 00000 00000 VP2M [8] Montserrat
 00000 00000 VP2S [8] . . St. Vincent & Dependencies
 00000 00000 VP2V [8] . . Brit. Virgin Is.
 00000 00000 VPS [8] . . Turks & Caicos Is.
 VP8 (See CE9AA-AM)
 00000 00000 VP8 [13] . . Falkland Is.
 00000 00000 VP8,LU-Z [13] . . So. Georgia Is.
 00000 00000 VP8,LU-Z [13] . . So. Orkney Is.
 00000 00000 VP8,LU-Z [13] . . So. Sandwich Is.
 VPS,LU-Z,CE9AN-AZ
 00000 00000 [13] . . So. Shetland Is.
 00000 00000 VP9 [5] Bermuda
 00000 00000 VQ9 [39] Chagos
 00000 00000 VR1,T3 [31] . . Brit. Phoenix Is.
 00000 00000 VR1,T3 [31] . . Gilbert & Ocean Is.
 00000 00000 VR3,7,T3 [31] . . Line Is.
 00000 00000 VR6 [32] . . Pitcairn I.
 VR7 (See VR3)
 00000 00000 VR8,T2 [31] . . Tuvalu

SSB	CW
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00000 00000 VS5 [28] Brunei
 00000 00000 VS6 [24] Hong Kong
 VS9 (See 8Q)
 00000 00000 VS9K Kamaran I.
 00000 00000 VU. [22] India
 00000 00000 VU7 [26] Andaman & Nicobar Is.
 00000 00000 VU7 [22] Laccadive Is.
 W (See K)
 00000 00000 XE. [6] Mexico
 00000 00000 XF4 [6] Revilla Gigedo
 XP (See OX)
 00000 00000 XT [35] Upper Volta
 00000 00000 XU. [26] Khmer Rep.
 00000 00000 XV. [26] Vietnam
 00000 00000 XW. [26] Lao People's Dem. Rep.
 00000 00000 XZ. [26] Burma
 00000 00000 YA. [21] Afghanistan
 00000 00000 YB,YC [28] Indonesia
 00000 00000 YI. [21] Iraq
 00000 00000 YJ. [32] (New Hebrides)
 00000 00000 YK. [20] Syria
 00000 00000 YN. [7] Nicaragua
 00000 00000 YO. [20] Rumania
 00000 00000 YS. [7] Salvador
 00000 00000 YU. [15] Yugoslavia
 00000 00000 YY. [9] Venezuela
 00000 00000 YV8 [8] Aves I.
 00000 00000 ZA. [15] Albania
 00000 00000 ZB. [14] Gibraltar
 ZC (See 5B)
 00000 00000 ZD7 [36] St. Helena
 00000 00000 ZD8 [36] Ascension I.
 00000 00000 ZD9. [38] Tristan da Cunha & Gough I.
 00000 00000 ZE. [38] ZIMBABWE (Rhodesia)
 00000 00000 ZF. [8] Cayman Is.
 00000 00000 ZK1 [32] So. Cook Is.
 00000 00000 ZK1 [32] No. Cook Is.
 00000 00000 ZK2 [32] Niue
 00000 00000 ZL. [32] New Zealand
 00000 00000 ZL. [32] Auckland I. & Campbell I.
 00000 00000 ZL. [32] Chatham Is.
 00000 00000 ZL. [32] Kermadec Is.
 ZLS (See CE9AA-AM)
 00000 00000 ZM7 [31] Tokelaus
 00000 00000 ZP. [11] Paraguay
 00000 00000 ZS1,2,4,5,6 [38] South Africa
 ZS1 (See CE9AA-AM)
 00000 00000 ZS2 [38] Prince Edward & Marion Is.
 00000 00000 ZS3 [38] (Namibia) Southwest Africa
 00000 00000 IS. [26] Spratly Is.
 00000 00000 3A [14] Monaco
 00000 00000 3B6,7 [39] Agalega & St. Brandon
 00000 00000 3B8 [39] Mauritius
 00000 00000 3B9 [39] Rodriguez I.
 00000 00000 3C [36] Equatorial Guinea

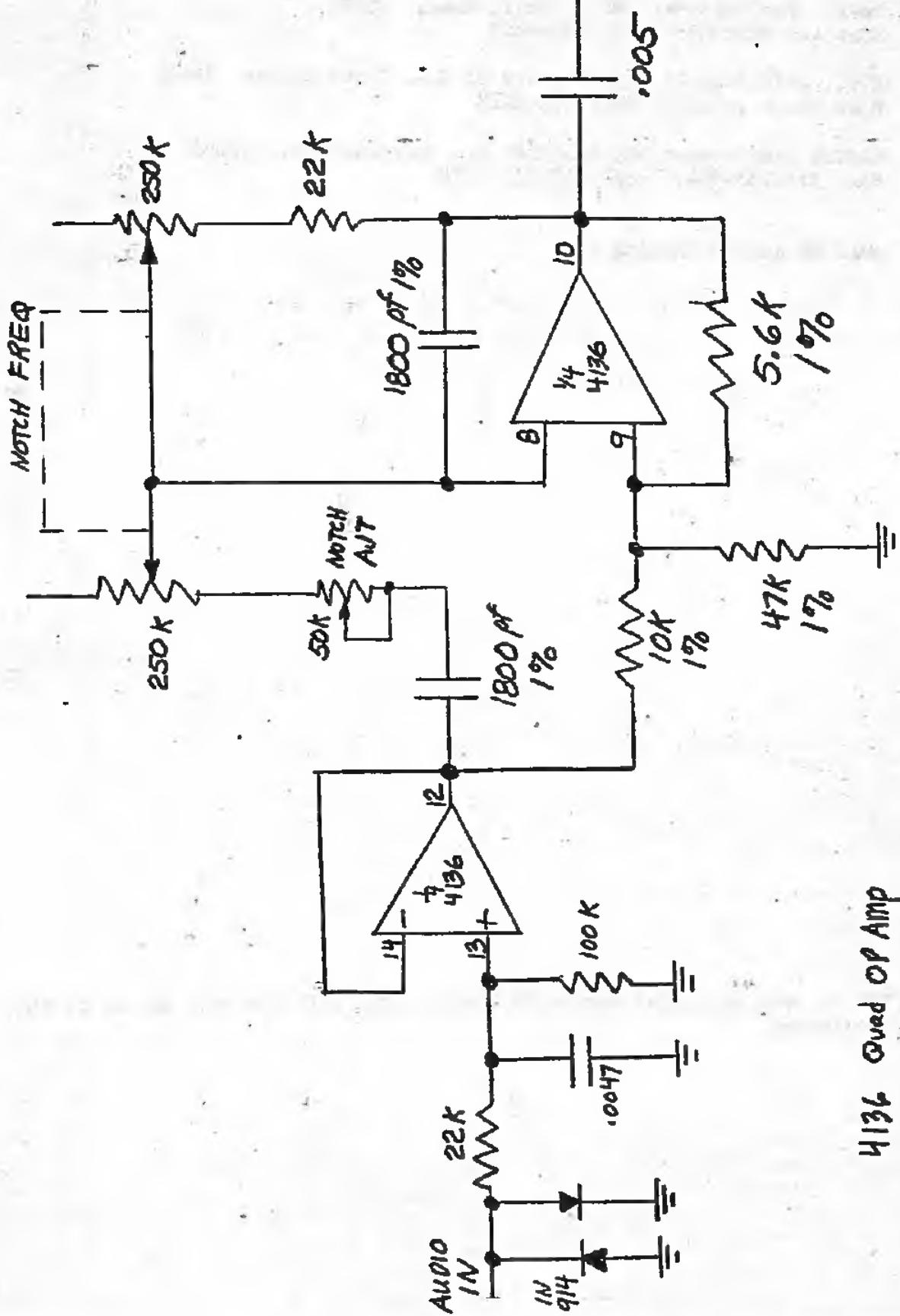
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00000 00000 3C9. [36] Annobon
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 00000 00000 3D6 [38] Swaziland
 00000 00000 3V [32] Tunisia
 00000 00000 3X [35] Rep. of Guinea
 00000 00000 3Y [38] Bouvet
 3Y (See CE9AA-AM)
 4K (See CE9AA-AM)
 00000 00000 4S [22] Sri Lanka
 00000 00000 4U [14] I.T.U. Geneva
 00000 00000 4U [5] Hq., United Nations
 00000 00000 4W [21] Yemen
 00000 00000 4X,42 [20] Israel
 00000 00000 5A [34] Libya
 00000 00000 5B,ZC [20] Cyprus
 00000 00000 5H [37] Tanzania
 00000 00000 5N [35] Nigeria
 00000 00000 5R [39] Malagasy Rep.
 00000 00000 5T [35] Mauritania
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 00000 00000 5V [35] Togo
 00000 00000 5W [32] Western Samoa
 00000 00000 5X [37] Uganda
 00000 00000 5Z [37] Kenya
 00000 00000 60 [37] Somali
 00000 00000 6W [35] Senegal
 00000 00000 6Y [8] Jamaica
 00000 00000 70 [21] People's Dem. Rep. of Yemen
 00000 00000 7P [38] Lesotho
 00000 00000 7Q [36] Malawi
 00000 00000 7X [32] Algeria
 7Z (See HZ)
 8J (See CE9AA-AM)
 00000 00000 8P [8] Barbados
 00000 00000 8Q,VS9 [22] Maldives
 00000 00000 8R [9] Guyana
 00000 00000 8Z4 [21] Saudi Arabia/Iraq
 Neutral Zone
 00000 00000 9A,(M1) [15] San Marino
 00000 00000 9G [35] Ghana
 00000 00000 9H [15] Malta
 00000 00000 9J [36] Zambia
 00000 00000 9K [21] Kuwait
 00000 00000 9L [35] Sierra Leone
 00000 00000 9M2 [28] West Malaysia
 00000 00000 9M6,8 [28] East Malaysia
 00000 00000 9N [22] Nepal
 00000 00000 9Q [36] Rep. of Zaire
 00000 00000 9U [36] Burundi
 00000 00000 9V [28] Singapore
 00000 00000 9X [36] Rwanda
 00000 00000 9Y [9] Trinidad & Tobago
 00000 00000 Abu Ail; Jabal at Tar

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Cubic 103 Notch FILTER

A good notch filter-any 741 type op amp will work
tnx NBB for schematic



351-1854-010

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KAG/CLQ Lynn Hansen 305 Friendly Dr. Marshalltown, 50158
Home 515-752-5899 Work 515-753-3378

WELCOME ABOARD FELLA'S !

TNX to W4SR, W4EJ, K4AT, W4EAN, AD4F, K4LUZ, KC0Q, and W4VX for inputs to the newsletter.